Affymetrix GeneChip System

- **GeneChip Hybridization Oven, A:** A "rotisserie" oven is used to carry out the hybridization of up to 64 arrays at one time.
- **Fluidics 450 Station, B:** The automated fluidics station contains four independent modules and performs washing and staining of the probe arrays.
- **GeneChip Operating software, C** controls Fluidics and Scanner using preprogrammed protocols.
- **GeneChip Scanner 3000, D** is a 16-bit sophisticated opto-mechanical confocal scanner which measures fluorescence intensity emitted by the labeled cRNA bound to the probe arrays at 5 micron resolution.
- **GCOS, C** also acquires and converts hybridization intensity data into a presence/absence call for each gene using appropriate algorithms.